

### Abstract of the Disclosure

A current producing wound dressing of the present invention is made by screen printing metal inks onto a biocompatible dressing material. A biocompatible solvent reducible polymer is separately mixed with powders of selected dissimilar metals to create two unique metal inks. The metal inks are printed onto a single surface of the dressing to form a pattern of alternating dots. The dots are spaced from each other by about one millimeter. After the metal inks have cured, the wound dressing material is applied over a wound such that an electrolytic solution of the body at least partially contacts the wound and the dressing material, causing at least part of the pattern of alternating dots to spontaneously produce an electrical current.